DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
)	
	•	111

EX

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ED SY LB

EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		
tl tl tl tl tl tl		\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$	
	11 11 11 11111 111111	\$\$ \$\$ \$\$ \$\$\$ \$\$\$\$\$\$\$\$	

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This file, EDT.REQ, contains definitions for EDT.

Edit history:

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```
1-001 - Beginning of edit history.
1-002 - Add ASSERT macro, remove bugcheck codes. JBS 01-Jun-1981
1-003 - Offset the PDP-11 error codes, so they can be distinguished
                              from system-specific error codes. JBS 16-Jul-1981
1-004 - Remove the error messages, putting them in ERRMSG.REQ. JBS 20-Jul-1981
1-005 - Add two fields to TBCB; one points to the previous buffer, the other marks the buffer as a macro. Delete
the creation of the MAC_BLOCK structure TMV 6-Aug-81
1-006 - Add the verb number for the new bell verb. STS 10-Aug-1981
1-007 - Add INP_JOURNAL and INP_COMMAND to replace INP_FILE. This lets us journal the responses to SUBSTITUTE/QUERY in the journal file. JBS 16-Aug-1981
 1-008 - Add the verb number for the new day/time verb. STS 31-Aug-1981
1-009 - Add the verb number for the new day/time verb. SIS 31-Aug-1981 1-009 - Update the routine and variable names. JBS & TMV 16-Aep-1981 1-010 - Add new verbs to set up default verb. SIS 21-Sep-1981 1-011 - Add new verbs for delete select and toggle select. SIS 23-Sep-1981 1-012 - Add new search and select verb. SIS 24-Sep-1981 1-013 - Add literals for word and para types. SIS 23-Oct-1981 1-014 - Add PREV_RANGE. JBS 02-Nov-1981 1-015 - Add definitions for file i/o codes and streams. SIS 08-Dec-1981 1-016 - Change edt$$k to edt$k for file i/o definitions. SIS 09-Dec-1981 1-017 - Add macro to set up address and length in string desc. SIS 11-Jan-1907 - Add macro to set up address and length in string desc. SIS 11-Jan-1907 - Add macro to set up address and length in string desc. SIS 11-Jan-1907 - Add macro to set up address and length in string desc. SIS 11-Jan-1907 - Add macro to set up address and length in string desc. SIS 11-Jan-1907 - Add macro to set up address and length in string desc.
 1-017 - Add macro to set up address and length in string desc. STS 11-Jan-1982
1-018 - Fix above macro to work with 11's. STS 13-Jan-1982
 1-019 - Add literals for open output seq and open output noseq. STS 13-Jan-1982 1-020 - Chang string desc macro for bliss16. STS 15-Jan-1982 1-021 - Change 32-bit arithmetic to 48-bit arithmetic. SMB 15-Jan-1982
 1-022 - Modify block allocation so that odd address traps don't occur on 11's. SMB 25-Jan-1982 1-023 - Remove original line numbers. SMB 29-Jan-1982
```

```
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
                               1-024 - Make callable literals global. STS 08-Mar-1982

1-025 - Remove callable literals. STS 08-Mar-1982

1-026 - Add symbols for control C handling. JBS 24-May-1982

1-027 - Change VMS multiply. SMB 25-May-1982

1-028 - Add EDT$$K_FMT_BUFLEN. JBS 05-Jul-1982

1-029 - Add verb for xlate. STS 13-Aug-1982

1-030 - Remove the keypad definitions to KEYPADDEF.REQ. JBS 13-Aug-1982
0058
             000000000000000000
0059
0060
0061
0062
0064
                                1-031 - Add ASC_K_CSI, for 8-bit keyboards. JBS 17-Aug-1982
1-032 - Add ASC_K_SS3, for 8-bit keyboards. JBS 20-Aug-1982
1-033 - Add verb_K_ctss. STS 26-Aug-1982
1-034 - Add K_RDAHED_LEN. JBS 31-Aug-1982
0065
0066
0067
8600
                                1-035 - Add new screen data structures. SMB 11-Sep-1982
1-036 - Put back a line that was deleted by mistake. SMB 15-Sep-1982
0069
0070
                               1-030 - Put back a line that was deleted by mistake. Smb 13-5ep-1902
1-037 - Revise the EDIT section of the new screen data structures. JBS 17-Sep-1982
1-038 - Add (C_RD(NT. JBS 17-Sep-1982
1-039 - Remove (C_RD(NT. STS 20-Sep-1982
1-040 - Work on conditionalizing addline macro for speed. STS 30-Sep-1982
1-041 - Add memory allocation maximum. SMB 18-Oct-1982
1-042 - Add macros for comparing line numbers. STS 20-Oct-1982
1-043 - Work on 11-version of compare macro. STS 21-Oct-1982
0071
0072
0074
0075
0076
0077
             00000
0078
                                1-044 - Bind high word of Linenumbers in compare macro. STS 21-Oct-1982
0079
                                1-045 - Fix bug in compare. STS 22-Oct-1982
                               1-046 - Work on 11 version of compare macro. STS 26-Oct-1982
1-047 - Change 11 compare to call EDT$$CMP_LNO. STS 27-Oct-1982
1-048 - Add SCR_EDIT_MINPOS, remove a bunch of unused and obsolete definitions. JBS 27-Oct-1982
0080
             Ŏ
0081
0082
             Ŏ
0083
             Ŏ
                                1-049 - Reduce the size of the screen edit area on the PDP-11. This saves
             000
0084
                                                    space at the expense of time. JBS 15-Nov-1982
                                1-050 - Remove the edit buffer entirely. JBS 27-Dec-1982
0085
                               1-051 - Reduce the amount of code generated by the ASSERT macro, to try to save space on the PDP-11. JBS 16-Jan-1983
1-052 - Correct the definition of SS3. JBS 19-Jan-1983
0086
             Ŏ
0087
8800
                               1-053 - Change the format buffer size for VMS. SMB 24-Feb-1983
1-054 - Remove WC_K_NUM_BUKT. JBS 29-Mar-1983
             Ó
0089
             Ŏ
0090
             Ŏ
0091
```

```
0092
0093
  0094
  0095
  0096
0097
  0098
  0099
  0100
  0101
  0102
0103
  0104
  0105
  0106
  0107
  0108
M 0109
M 0110
  0111
0112
M 0113
M 0114
  0115
0116
M 0117
          Ŏ
  0118
  0119
  0120
          Ŏ
  0121
          Ò
          Ŏ
```

MACRO END_FIELDS = TES;%;

MACRO STRUC_SIZE(SIZE) = LITERAL SIZE = (FIELD_OFFSET+7)/8; %;

! IMPLEMENTATION PARAMETERS.

The following definitions are parameters used in the work-file system which may require re-definition for different implementations.

LITERAL
WF BLN LEN
LINE_NOM_LEN

! Bit length of a work-file block number. ! Bit length of a line number. (actually 3*16=48)

0188 0189

0190

0191

0192

TBCB PEFINITION

The EDT work file can contain multiple, independent data sets referred to as Text Buffers. A text buffer corresponds to the construct of the same name found in EDT user documentation, it is a segential file of variable length records. The records are grouped together into blocks of 512 characters. The records in a block are sequentially ordered, though the blocks themselves are not. Each block contains a two-byte link to the previous and following blocks. In addition to the lines in the work-file, an input file may be associated with a text buffer. In this case the input file is logically placed at the end of the text buffer. The Text buffer is accessed via a control block called the Text Buffer Control Block, or TBCB.

START FIELDS(TBCB FIELDS)

A FIELD (TBCB LINE ADDR, %BPADDR),
A FIELD (TBCB CUR BUKT, WF BLN LEN),
A FIELD (TBCB CUR LIN, LINE NUM LEN),
A FIELD (TBCB CUR LIN, LINE NUM LEN),
A FIELD (TBCB CUR LINH, LINE NUM LEN),
A FIELD (TBCB CUR LINH, LINE NUM LEN),
A FIELD (TBCB CHAR POS, WF BEN LEN),
A FIELD (TBCB FIRST BUKT, WF BEN LEN),
A FIELD (TBCB LAST BUKT, WF BEN LEN),
A FIELD (TBCB LINE TUNE, LINE RUM LEN),
A FIELD (TBCB INPUT LINM, LINE NUM LEN),
A FIELD (TBCB INPUT LINH, LINE NUM LEN),
A FIELD (TBCB LINE COUNT, LINE NUM LEN),
A FIELD (TBCB LC M, LINE NUM LEN),
A FIELD (TBCB CHAR COUNT, XBPVAL),
A FIELD (TBCB CHAR COUNT, XBPVAL),
A FIELD (TBCB REXT BUF, XBPADDR),
A FIELD (TBCB INPUT RAB, 8),
A FIELD (TBCB INPUT RAB, 8),
A FIELD (TBCB NAME LEN, 8),
A FIELD (TBCB NAME, 8),
A FIELD (TBCB ! The character position within the line Number of last input line. Pointer to previous text buffer. Pointer to next text buffer.

END_FIELDS

STRUC_SIZE(TBCB_SIZE)

! Define size of TB(B.

MACRO TBCB_BLOCK = BLOCK[TBCB_SIZE,BYTE] FIELD(TBCB_FIELDS) ;

The pos block is the portion of the TBCB which contains information needed to locate the current line. This block must be identical to the first part of the TBCB or everything will fail.

START_FIELDS(POS_FIELDS) A_fTeld(POS_LINE ADDR.XBPADDR), A_fIELD(POS_CUR_BUKT.Wf_BLN_LEN), A_fIELD(POS_CUR_LIN,LINE_NUM_LEN), Pointer to current line. Current bucket number. ! Current line number.

VAX-11 Bliss-32 V4.0-742 \$255\$DUA28:[EDT.SRC]EDT.REQ;1

0217 0218

A line number contains an integer part and a fractional part.

START FIELDS(LIN FIELDS)

A FIELD(LIN LENGTH,8),

A FIELD(LIN NUM, LINE NUM LEN),

A FIELD(LIN NUMM, LINE NUM LEN),

A FIELD(LIN NUMH, LINE NUM LEN),

A FIELD(LIN TEXT,0)

END FIELDS ! Length of line ! The line number

! The actual text

STRUC_SIZE(LIN_FIXED_SIZE)

! TEXT LINE DEFINITIONS

MACRO LIN_BLOCK = BLOCK[LIN_FIXED_SIZE,BYTE] FIELD(LIN_FIELDS)%;

WORK-FILE BUCKET DEFINITIONS

The work file is orgainized into blocks of WF_BLOCK_SIZE characters. Each Text Buffer in the work file consists of a linked list of blocks.

LITERAL WF_BUKT_SIZE = 512;

! Size of a work-file block

START_FIELDS(WFB_FIELDS)

A_FIELD(WFB_PREV_BUKT,WF_BLN_LEN),

A_FIELD(WFB_NEXT_BUKT,WF_BLN_LEN),

A_FIELD(WFB_END, %BPVAL),

A_FIELD(WFB_RECORDS,0)

END_FIELDS

STRUC_SIZE(WFB_FIXED_SIZE)

! Number of previous bucket ! Number of next bucket

Offset to last record in block Address of first record in block

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]EDT.REQ;1

```
0000
    0
```

```
! LINE NUMBER BLOCK DEFINITIONS
The line number is defined as a block, so it can be handled as three 16-bit words.
FIELD LN_FIELDS =
     LN_LO = [0,0,16,0],

LN_MD = [2,0,16,0],

LN_HI = [4,0,16,0]

TES;
MACRO LN_BLOCK = BLOCK[6,BYTE] FIELD(LN_FIELDS) %;
LITERAL LN_SIZE = 6;
STRUCTURE
```

LNOVECTOR[1;N] = [N+LN_SIZE] (LNOVECTOR+1+LN_SIZE);

VAX-11 Bliss-32 V4.0-742 _\$2>5\$DUA28: [EDT.SRC]EDT.REQ; 1

```
0259
0260
0261
0262
0264
0265
0266
0267
0268
0269
      Ŏ
0270
0271
0272
0274
0275
0276
0278
0279
0280
0281
0282
0283
0284
0285
0286
0287
0288
0289
0290
0291
0292
0293
0294
0295
0296
0297
0298
0299
0300
0301
0302
0304
0305
0306
0307
0308
0309
0310
0311
0312
```

0314

Semantic node definitions.

The following defines the structures created by the EDT command parser semantic routines. These structures form a tree-like representation of the command.

The fields which are grouped together are re-definitions of the same slot for use in different types of nodes.

```
fIELD NODE_fIELDS =
       NODE_TYPE
                          = [0.8,0.0]
                                                                                        ! Identifies the type of node
                            = [1,0,8,0],
= [1,0,8,0],
= [1,0,8,0],
= [1,0,8,0],
       COM NUM
                                                                                            Identifies the command
       RAN TYPE
OP TYPE
                                                                                            Identifier type of range
                                                                                            Identifies type of operand
       SEQ_VAL
                                                                                            Did the seg switch have value.
                            = [XUPVAL,0,XBPVAL,0],
       RANGE 1
                                                                                            first range specifier
       RAN_VAL
SW_BITS
                                                                                            Value for range specifier
                                                                                            Bits for each possible switch
       SRCHADDR
                                                                                            Address of search string
       SET_TYPE
LEFT_OP
                                                                                            Which type of set command
Left operand for binary ops
       OP_LEN
                                                                                            operand length for op nodes.
                                                                                            Operand value for numerics.
       COM EXPR
                                                                                            Expression pointer for LET
       OP CEFTOP
                                                                                            Left operand for operators.
       SUB_BASE
                                                                                            Substring base string.
                            = [XUPVAL*2,0,XBPVAL,0],
       RANGE 2
                                                                                            Second range specifier
       SUB_RANGE
STR_PNT
                                                                                            Pointer to range for ranges
                                                                                           Pointer to a search string
Search string length
File specification address
       SRCHI EN
       FILSPEC
       SW_VAL1
AS_STR
RIGHT_OP
                                                                                            First value for switches
                                                                                            Addr of string for AS
Right operand for binary ops.
Address of buffer name
       BUF NAME
OP ADDR
                                                                                            Operand address for op nodes.
       COM_VARBL
                                                                                            Variable pointer for LET
       OP_RIGHTOP
                                                                                            Right operand for operators.
       SUB_START
                                                                                            Substring start pos.
       TAB_COUNT
                                                                                            Count for tabs adjust.
      SET_VAL1 = [XUPVAL*3.0.XBPVAL.0],
REPADDR = [XUPVAL*3.0.XBPVAL.0],
FSPCLEN : [XUPVAL*3.0.XBPVAL.0],
AS_LEN = [XUPVAL*3.0.XBPVAL.0],
BUF_LEN = [XUPVAL*3.0.XBPVAL.0],
SUB_LENGTH = [XUPVAL*3.0.XBPVAL.0],
                                                                                            Value for set command
                                                                                            Replace string address
                                                                                            file spec length
                                                                                            Length of string for AS
                                                                                            length of buffer name
                                                                                            Substring length.
       NEXT COM
                             = [XUPVAL *4,0,XBPVAL,0],
                                                                                           Pointer to next command
       NEXT RANGE = [1UPVAL *4,0,1BPVAL,0],
                                                                                        ! Pointer to next range
```

(8)

```
F 3
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
                                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                          Page 11
                                                                                                                       $255$DUA28: [EDT. SRC]EDT.REQ: 1
                                       = [XUPVAL*4.0.XBPVAL.0].
= [XUPVAL*4.0.XBPVAL.0].
= [XUPVAL*4.0.XBPVAL.0].
0316
0317
                       REPLEN
                                                                                     . Replace string length
        Ŏ
                      SET_VAL
0318
                                                                                     ! Number of key for def key
0319
        Ŏ
                      PREV_RANGE = [%UPVAL*5,0,%BPVAL,0],
SW_VAL2 = [%UPVAL*5,0,%BPVAL,0],
0320
                                                                                     ! Reverse of NEXT_RANGE! Switch block pointer
0321
0322
0323
0324
0325
                       SW_VAL2
                                                                                     ! Second option switch value
                      SW_OVR1
                                        = [XUPVAL *6,0,XBPVAL,0],
                                                                                     ! Part of second option switch
0326
                       SW OVR2
                                       = [XUPVAL + 7.0.XBPVAL.0]
                                                                                     ! Part of second option switch
                      TES:
0328
0329
                 LITERAL
                                       = 20,
= 8**UPVAL;
0330
                      NUM_NODES
                                                                                     ! Number of semantic nodes
0331
0332
0333
                      NODE_SIZE
                                                                                     ! Size of semantic node
                 LITERAL! Node type equates
0334
                      COM_NODE = 1,
RANGE_NODE = 2,
STR_NODE = 3,
SW_NODE = 4,
OP_NODE = 5;
0335
                                                                                        Command node
0336
0337
0338
0339
0340
0341
                                                                                       Range node
SUBSTITUTE strings
Option switch value
                                                                                       Expression operand
                 MACRO NODE_BLOCK = BLOCK[NODE_SIZE,BYTE] FIELD(NODE_FIELDS) %;
```

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28: [EDT. SRC]EDT.REQ; 1

```
0342 0
0343 0
0344 0
0345 0
0346 0
0347 0
0348 0
0349 0
                                          ASCII CHARACTER DEFINITIONS
                                          ! Commonly used non-printing ASCII characters.
                                       LITERAL

ASC_K_BS = %0'10',

ASC_K_TAB = %0'11',

ASC_K_CTRL_K = %0'12',

ASC_K_FF = %0'14',

ASC_K_CR = %0'15',

ASC_K_SO = %0'16',

ASC_K_SI = %0'17',

ASC_K_CTRL_U = %0'25',

ASC_K_CTRL_Z = %0'32',

ASC_K_CTRL_Z = %0'33',

ASC_K_SP = %0'40',

ASC_K_SP = %0'40',

ASC_K_CSI = ASC_K_ESC + %x'80',

ASC_K_SS = ASC_K_SI + %x'80';
0351
0352
0353
0354
0355
0356
0357
0358
0359
 0360
                    Ŏ
 0361
                     Ŏ
 0362
0363
```

VAX-11 Bliss-32 V4.0-742 \$255\$DUA28:[EDT.SRC]EDT.REQ;1

```
0364 0
0365 0
                                        COMMAND NUMBER DEFINITIONS
0366
0367
0368
                  Ŏ
                  Ŏ
                                        The following values are used in a command type node to specify which command it is.
                  Ŏ
0369
                  Ŏ
                  Ŏ
0370
                                             ERAL

COM_NULL = 0.

COM_CHANGE = 1.

COM_COPY = 2.

COM_DEFINE = 3.

COM_DELETE = 4.

COM_EXIT = 5.

COM_FIND = 6.

COM_INCLUDE = 7.

COM_INSERT = 8.

COM_MOVE = 9.

COM_PRINT = 10.

COM_PRINT = 11.

COM_REPLACE = 12.

COM_RESEQ = 13.

COM_SUBS = 16.

COM_SUBS = 16.

COM_SUBS = 17.

COM_WRITE = 18.

COM_SUBS NEXT=19.

COM_HELP = 20.

COM_TADJ = 22.

COM_FILL = 23.

COM_DEF_MAC = 24.
0371
                  Ŏ
                                   LITERAL
0372
0373
                  Ŏ
                  Ŏ
0374
0375
                  Ŏ
0376
                  Ŏ
                  Ŏ
0378
                  Ŏ
0379
                  Ŏ
0380
                  Ŏ
                  Ŏ
0381
0382
                 0
0383
                  0
0384
                 0
0385
                 Ŏ
                 0
0386
                 Ŏ
0387
                 Ŏ
0388
0389
                 Ŏ
                 Ŏ
0390
0391
                 Ŏ
                                             COM_SUBS_NEXT=19,

COM_HELP = 20,

COM_CLEAR = 21,

COM_TADJ = 22,

COM_FILL = 23,

COM_DEF_MAC = 24,

COM_MAC_CALL= 25,

COM_VERIFY = ?,

LAST_COM = 25;
0392
0393
```

0394

0396 0397

0398 0399

VAX-11 Bliss-32 V4.0-742

\$255\$DUA28: [EDT.SRC]EDT.REQ; 1

```
0400 0
0401 0
0402 0
0402
                 RANGE TYPE DEFINITIONS
0404
                 The following constants are used in range nodes to specify the type of
0405
                 range.
0406
0407
0408
               LITERAL
0409
                    RAN NULL
0410
                    RAN NUMBER = 1.
                                   = \frac{2}{3}
0411
                    RAN_DOT
                    RAN_STR
RAN_BEGIN
0412
                                  =
0414
                    RAN_END
RAN_ORIG
                                   = 5,
                                   =
0416
                    RAN_PATTERN = 7,
0417
                    RAN_LAST
                                   =
                                  = 9
0418
                    RAN_BEFORE
0419
                    RAN_REST
                                   = 10.
                    RAN_WHOLE
RAN_SELECT
RAN_BUFFER
0420
                                   = 11.
0421
                                   = 12.
0422
                                  = 13,
                    RAN_PLUS
                                   = 14,
0424
                    RANTMINUS
                                   = 15,
                    RAN_FOR RAN_THRU
                                   = 16,
0425
0426
                                   = 17.
0427
                    RAN_MINSTR
                                  = 18,
0428
                    RAN_ALL
                                   = 19,
                                   = 20.
= 20.
= 7:
                    RAN_AND
NUM_RAN
0429
                                               Total number of ranges
0431
0432
0433
                    NUM_SLR
                                               number of single line ranges
0434
                 Operand types for operand nodes.
0436
0437
               LITERAL
       Ŏ
                   OP_STRING
OP_NUM
OP_VAR
OP_DOT
OP_ADD
OP_SUB
OP_MULT
                                   = 0.
                                               Operand is a quoted string
0438
                                   = 1,
                                               Operand is a number
                                   = <u>2</u>.
= <u>3</u>.
0439
                                               Operand is a variable
0440
                                               Operand is the dot pseudo variable
0441
                                   = 4,
                                               Operand is an addition operator
0442
                                   = 5,
                                               Operand is a subtractions operator
                                   = 6.
                                               Operand is a multiplication operator
                    OP DIV
0444
                                   = 7.
                                               Operand is a division operator
                                   = 8.
                                               logical and
                    OP_AND
OP_OR
OP_LSS
OP_LEQ
OP_GEQ
OP_GTR
OP_NEQ
0446
                                   = 9,
= 10,
                                               logical or
                                               compare for less
0448
                                   = 11,
                                               compare for less or equal
0449
0450
0451
                                   = 12,
= 13,
                                               Compare for equality
                                               compare for greater or equal
                                   = 14,
                                               compare for greater
0452
0453
                                   = 15.
                                               compare for not equal
                    OP_AMP
OP_SUBSTR
                                   = 16.
= 17.
                                               concatenation
0454
                                               substringing
                    OP NEG
                                   = 18,
                                               negation
0456
                    OP_NOT
                                   = 19.
                                               logical not
```

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]EDT.REQ;1

! length of ! current column

! current position ! last operand type

0457 0458 0459 0460 0461 00000 OP_LENGTH = 20, OP_COL = 21, OP_FIND = 22, OP_POS = 23, OP_LAST_OP = 23;

VAX-11 Bliss-32 V4.0-742

M 0518

```
_$255$DUA28:[EDT.SRC]EDT.REQ;1
 LINE NUMBER HAND! ING MACROS
  These macros are used for arithmetic involving line numbers, so it can
  be transportable across systems with various word lengths. At least 48
  bits of precision are required for line numbers. Line numbers are stored
  as an integer with a scale of -5, i.e. the true value * 10**5, so we can
  have 5 decimal positions and 10 integer positions in the line number.
XIF XBLISS(BLISS32) XTHEN
MACRO
    ADDLINE(S1,S2,DEST,MAX) =
! Add 2 48-bit numbers using 2 longwords (so we can
 use the BLISS-32 Built-in macros).
    BEGIN
XIF XCTCE(S1) XTHEN
    XIF XLENGTH EQL 2 XTHEN
! add a compile time expression to s? and store it in s2
        BEGIN
        BIND
            FIRST_LWORD = S2 :LONG,
            NEXT_WORD = (S2+4) : WORD;
        FIRST_LWORD = .FIRST_LWORD +S1;
        IF .FIRST_LWORD LSSU_S1
            NEXT\_WORD = .NEXT\_WORD + 1;
        END
    XELSE
 add a compile time expression to s2 and store it in dest
        BEGIN
        BIND FIRST_WORD = (DEST) : LONG,
             NEXT_BORD = (DEST+4) : WORD,
             SOURTE_ZLO = (S2) : LONG.
             SOURCE_2HI = (S2+4) : WORD;
        FIRST_WORD = .SOURCE_2LO + S1;
        IF (.FIRST_WORD LSSUTS1)
        THEN
            NEXT_WORD = .SOURCE_2HI + 1
            NEXT_WORD = .SOURCE_2HI;
        END
    XF I
XELSE
 we don't have a compile time expression, but we are adding two 48-bit numbers
```

! store the result in S2

XIF XLENGTH EQL 2 XTHEN

BEGIN

VAX-11 Bliss-32 V4.0-742

```
M 0519
M 0520
M 0521
M 0549
  0550
M 0551
           0000
  0552
M 0553
  0554
  0555
M 0556
M 0557
M 0558
M 0559
M 0560
M 0561
M 0562
M 0563
           0000000000
M 0564
M 0565
   0566
0567
   0568
M 0569
   0570
   0571
   0572
0573
           0000
```

0574

XIF XLENGTH EQL 2 XTHEN

```
_$255$DUA28:[EDT.SRC]EDT.REQ;1
         LOCAL SAVE: WORD:
         BUILTIN ADDM
         BIND UPPER WORD = ($2+6) : WORD;
SAVE = UPPER WORD;
ADDM(2,$1,$2,$2);
         UPPER_WORD = .SAVE;
         END
    XELSE
         XIF XLENGTH EQL 3 XTHEN
                                               ! store the result in DEST
         BEGIN
         LOCAL
              SAVE : WORD;
         BUILTIN ADDM;
         BIND UPPER_WORD = (DEST+6) : WORD;
         SAVE = .UPPER_WORD;
ADDM(2,S1,S2, DEST);
         UPPER_WORD = .SAVE;
         END
         XELSE
                                                ! store the result in DEST and return
              BEGIN
                                                ! any overflow in MAX
              LOCAL
                   SAVES2 : WORD,
                   SAVED : WORD:
              BIND
                   S1_{UP} = (S1+6) : WORD,
                   S2\underline{UP} = (S2+6) : WORD,
                   DEST_UP = (DEST+6) : WORD;
             BUILTIN ADDM;
SAVES2 = .S2_UP + .S1_UP;
SAVED = .DEST_UP;
              ADDM(2,S1,S2,BEST);
! Get the overflow bit
              IF .DEST_UP EQL .SAVES2
              THEN
                   MAX = 0
              ELSE
                   MAX = 1;
              DEST_UP = .SAVED;
              END
         XF I
    XF I
XF 1
    ENDX.
    SUBLINE(S1,S2,DEST) =
  Subtract 2 48-bit numbers using 2 longwords
XIF XCTCE(S1) XTHEN
```

VAX-11 Bliss-32 V4.0-742

_\$255\$DUA28:[EDT.SRC]EDT.REQ;1

```
M 0576
M 0577
M 0578
M 0580
M 0581
M 0583
                    we have a compile time expression to add to S2 and store in S2
                            BEGIN
                            LOCAL SAVE : LONG;
                            BIND
                            FIRST_WORD = S2 :LONG,
NEXT_WORD = (S2+4) : WORD;
SAVE = .FIRST_WORD;
FIRST_WORD = .FIRST_WORD - S1;
IF .FIRST_WORD GTRU .SAVE
  0584
  0585
M 0586
  0587
M 0588
M 0589
M 0590
M 0591
M 0593
M 0593
                                 NEXT_WORD = .NEXT_WORD - 1;
                            END
          000
                       XELSE
                    add the compile time expression to S2 and store it in DEST
                            BEGIN
M 0595
                            BIND FIRST_WORD = (DEST) : LONG.
                                  NEXT_WORD = (DEST+4) : WORD.
M 0596
  0597
                                   SOURTE_2LO = (S2) : LONG.
  0598
                                   SOURCE 2HI = (S2+4) : WORD:
M 0599
                            FIRST_WORD = .SOURCE_2LO - S1;
M 0600
M 0601
                            IF .FIRST_WORD GTRU .SOURCE_2LO
M 0602
                            THEN
M 0603
                                 NEXT_WORD = .SOURCE_2HI - 1
M 0604
                            ELSE
          Ŏ
M 0005
                                 NEXT_WORD = .SOURCE_2HI;
          Ŏ
M 0606
                            END
M 0607
                       XF I
          Ŏ
M 0608
                  XEL SE
M 0609
                       XIF XLENGTH EQL 2 XTHEN
          Ŏ
M 0610
M 0611
                    add two 48 bit numbers and store result in SZ
M 0612
          0
M 0613
          0
                            BEGIN
M 0614
          0
                            LOCAL SAVE: WORD:
M 0615
          0
                            BUILTIN SUBM;
M 0616
          0
                            BIND UPPER WORD = (S2+6) : WORD:
                            SAVE = .UPPER_WORD .
M 0617
          0
M 0618
          0
                            SUBM(2, $1, $2, $2);
M 0619
          000000000
                            JPPER_WORD = .SAVE;
M 0620
                            END
M 0621
                       MELSE
M 0622
M 0623
                    add two 48 bit numbers and store result in DEST
M 0623
M 0624
M 0625
M 0627
F 0628
M 0630
M 0631
M 0632
                            BEGIN
                            LOCAL
                                 SAVE : WORD;
          Ó
                            BUILTIN SUBM;
          Õ
                            BIND UPPER_NORD = (DEST+6) : NORD;
                            SAVE = .UFPER_WORD;
                            SUBM(2,S1,S2, DEST);
```

```
M 0633
M 0634
M 0635
         00000000
M 0636
  0637
  0638
  0639
M 0640
         Ŏ
M 0641
M 0642
M 0643
M 0644
M 0645
M 0646
M 0647
M 0648
M 0649
M 0650
M 0651
         0
M 0652
M 0653
         0
M 0654
M 0655
M 0656
M 0657
         0
         0
M 0658
M 0659
M 0660
         0
M 0661
         0
         Ŏ
M 0662
M 0663
         Ó
M 0664
M 0665
M 0666
M 0667
         Ó
         0
  0668
         0
  0669
  0670
         0
  0671
         0
0672
M 0673
M 0674
M 0675
M 0676
M 0677
M 0678
M 0679
M 0680
M 0681
M 0682
M 0683
M 0684
M 0685
M 0686
         Ŏ
M
  0687
  0688
         0
```

```
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
         UPPER_WORD = .SAVE;
          END
     XF I
XF I
     ENDX.
    MULTLINE(S1.S2.DEST) =
 Multiply 2 48-bit numbers, but S1 MUST be <= 100,000
          BEGIN
         BIND
              M1 = S1 : BITVECTOR [32];
         LOCAL M2 : VECTOR[2],
P : VECTOR[2];
         BUILTIN ADDM, ASHQ;
  Set up the multiplicand and result in 64 bits, zeroeing
  out the upper 16-bits.
          M2[0] = .($2)<0,32>; M2[1] = .($2+4)<0,16>;
         P[0] = 0; P[1] = 0;
 Since 65535 < multiplier <+ 100,000... we only need to
  examine the low order 17-bits.
         DECR I FROM 16 TO 0
         DO
              BEGIN
              ASHQ(%REF(1), P, P);
                                                                       Shift result left by 1 (multiply by 2)
               IF (.M1[.I]) THEN ADDM(2, P, M2, P);
                                                                       Add multiplicand to result
                                                                     ! if multiplier bit set
          (DEST) < 0.32 > = .P[0]; (DEST+4) < 0.16 > = .P[1];
         ENDX.
  compare two 48 bit line numbers to see if they are equal
    LINNOEQL(LIN1,LIN2) =
    BEGIN
    BIND
         NO_1 = LIN1 : VECTOR[3,WORD],

NO_2 = LIN2 : VECTOR[3,WORD],

LOW_1 = NO_1[0] : LONG,

LOW_2 = NO_2[0] : LONG,

HIGH_1 = NO_1[2] : WORD,

HIGH_2 = NO_2[2] : WORD;
     IF ((.LOW_1 EGL .LOW_2) AND (.HIGH_1 EQL .HIGH_2))
     THEN
          (1)
     ELSE
          (0)
     ENDI.
```

N 3

Page 20 (12)

VAX-11 Bliss-32 V4.0-742

\$255\$DUA28:[EDT.SRC]EDT.REQ:1

```
B 4
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
  0690
0691
0692
0693
                           CMPLNO(LIN1,LIN2) =
                           BEGIN
                          BIND
                               NO_1 = LIN1 : VECTOR[3,WORD],

NO_2 = LIN2 : VECTOR[3,WORD],

LOW_1 = NO_1[0] : LONG,

LOW_2 = NO_2[0] : LONG,

HIGH_1 = NO_1[2] : WORD,

HIGH_2 = NO_2[2] : WORD;
   0694
   0695
   0696
   0697
   0698
   0699
0700
                                IF (.HIGH_1 LSSU .HIGH_2)
   0701
   0702
                                      (-1)
   0703
                                ELSE
   0704
                                      BEGIN
   0705
                                      IF (.HIGH_1 EQL .HIGH_2)
   0706
   0707
                                            IF (.LOW_1 LSSU .LOW_2)
   0708
                                            THEN
   0709
                                            ELSE
                                                  IF (.LOW_1 EQL .LOW_2) THEN (0) ELSE (1)
                                            (1)
                                      END
                          END%.
                          MOVELINE(S,D) = (CH$MOVE(6,S,D))
                                                                                                      ! Move 6 bytes of storage
   0718
   0719
                          BUILDLINE(S,D) = (D = S; (D+4) = 0)%;
                                                                                                      ! Build a number
  0720
0721
0722
0723
0724
0725
                    XELSE XIF XBLISS(BLISS16) XTHEN
                    MACRO
                           ADDLINE(S1,S2,DEST,MAX) =
  0726
0727
                          BEGIN
                          XIF XCTCE(S1) XTHEN
XIF XLENGTH EQL 2 XTHEN
   0728
   0729
   0730
                     ! we are adding a constant to source_2 and storing in source_2
   0731
                                                BEGIN
BIND
                                                 FIRST_WORD = S2:WORD,
NEXT_WORD = (S2+2): WORD,
HIGH_WORD = (S2+4): WORD;
FIRST_WORD = .FIRST_WORD + S1;
IF .FIRST_WORD EQL 0
   0734
   0735
   0736
U 0737
U 0738
U 0739
U 0740
                                                  THEN
                                                        BEGIN
U 0741
                                                        NEXT_WORD = .NEXT_WORD + 1;
                                                        IF . NEXT WORD EQL O THEN HIGH WORD = . HIGH WORD + 1;
U 0742
U 0743
                                                        END:
            Ò
                                                END
U 0744
   0745
            0
                                XELSE
```

0

: U 0746

! +

VAX-11 Bliss-32 V4.0-742

_\$255\$DUA28:[EDT.SRC]EDT.REQ;1

```
U 0747
U 0748
         0
U 0749
         0
                        BEGIN
U 0750
         0
                        BIND
U 0751
U 0752
U 0753
U 0754
U 0755
U 0756
U 0757
U 0758
U 0760
U 0761
                        THEN
Ŭ 0762
                            BEGIN
U 0763
U 0764
U 0765
                             THEN
U 0766
U 0767
                            END:
U 0768
         0
                        END
         0
                   XF I
U 0769
         Ō
U 0770
U 0771
         0
U 0772
U 0773
U 0774
                   XELSE
U 0775
U 0776
U 0777
                        XEL SE
U 0778
u 0779
U 0780
                            XELSE
U 0781
U 0782
                            XF I
                        XF I
U 0783
U 0784
                    XF I
U 0785
                   END".
U 0786
U 0787
                    BEGIN
U 0788
U 0789
                        BEGIN
u 0790
u 0791
                            BEGIN
u 0792
U 0793
                            BIND
u 0794
u 0795
U 0796
U 0797
U 0798
U 0799
U 0800
                             THEN
         Ŏ
U 0801
U 0802
         0
         Ŏ
U 0803
```

```
! destination is DEST and we have a compile time constant
                SOURCE_1 = S2 : WORD,

SOURCE_2 = (S2+2) : WORD,

SOURCE_3 = (S2+4) : WORD,

FIRST_WORD = DEST : WORD,
                NEXT_WORD = (DEST+2) : WORD,
HIGH_WORD = (DEST+4) : WORD;
          FIRST WORD = .SOURCE 1 + S1;

NEXT_WORD = .SOURCE 2;

HIGH_WORD = .SOURCE 3;

IF .FIRST_WORD EQL 0
                NEXT_WORD = .NEXT_WORD + 1;
IF .NEXT_WORD EQL 0
                      HIGH_WORD = .HIGH_WORD + 1;
 we don't have a constant
           XIF XLENGTH EQL 2 XTHEN
           BEGIN EXTERNAL ROUTINE A48_ADD; A48_ADD(S1,S2,S2) END
                XIF XLENGTH EQL 3 XTHEN
                BEGIN EXTERNAL ROUTINE A48_ADD; A48_ADD(S1,S2,DEST) END
                      BEGIN EXTERNAL ROUTINE A48_ADD; MAX = A48_ADD(S1,S2,DEST) END
     SUBLINE(S1,S2,DEST) =
     XIF XCTCE(S1) XTHEN
           XIF XLENGTH FOL 2 XTHEN
                LOCAL SAVE : WORD:
                FIRST WORD = S2 : WORD,
NEXT WORD = (S2+2) : WORD,
HIGH WORD = (S2+4) : WORD;
SAVE = FIRST WORD;
FIRST WORD = TIRST WORD - S1;
                 IF .FIRST_WORD GTRUT.SAVE
                      BEGIN
                      NEXT_WORD = .NEXT_WORD - 1;
                      If .Next_word Eql -1 Then HIGH_word = .HIGH_word - 1;
```

```
U 0804
U 0805
U 0806
U 0807
U 0808
U 0809
U 0810
U 0811
  0812
U 0814
U 0815
  0816
0817
  8130
U 0819
  0820
0821
  0822
0823
U 0824
  0825
  0826
0827
  0828
  0829
  0830
  0831
  0832
  0833
  0834
  0835
  0836
  0837
  0838
  0839
  0840
  0841
  0842
  0843
  0844
  0845
  0846
  0847
  0846
  0849
U
  0850
  0851
U 0852
U 0853
```

U 0854 0855

```
END:
              END
         XELSE
  subtract a compile time constant to S2 and put result in DEST
              BEGIN
              BIND
                   FIRST WORD = DEST : WORD,
NEXT_WORD = (DEST+2) : WORD,
                   HIGH WORD = (DEST+4) : WORD,
                   S2_L0 = S2 : WORD,
S2_M = (S2+2) : WORD
                   S2HI = (S2+4) : WORD;
              FIRST_WORD = .S2_LO - S1;

NEXT_WORD = .S2_M;

HIGH_WORD = .S2_HI;

IF .FIRST_WORD GTRU .S2_LO
              THEN
                   BEGIN
                  NEXT WORD = .NEXT_WORD - 1;
IF .NEXT_WORD EQL -1
                   THEN
                       HIGH_WORD = .HIGH_WORD - 1;
                   END:
              END
         XF I
         END
    XELSE
! We don't have a compile time expression
         XIF XLENGTH EQL 2 XTHEN
              BEGIN EXTERNAL ROUTINE A48_SUB; A48_SUB(S1,S2,S2) END
         XELSE
              BEGIN EXTERNAL ROUTINE A48_SUB; A48_SUB(S1,S2,DEST) END
         XF I
    XF I
    ENDX.
    MULTLINE(S5,S6,D3) =
         BEGIN EXTERNAL ROUTINE A48_MUL; A48_MUL($5,$6,D3) END %,
    LINNOEQL (LIN1,LIN2) = (CHSEQL(6,LIN1,6,LIN2))X,
    CMPLNO (LIN1, LIN2) =
         BEGIN EXTERNAL ROUTINE EDTSSCMP_LNO; EDTSSCMP_LNO(LIN1,LIN2) END %,
    MOVELINE(S11,D6) = (CH$MOVE(6,S11,D6))X,
    BUILDLINE(S12,D7) = (D7 = S12; (D7+2) = 0; (D7+4) = 0)%;
XFI XFI
```

```
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
                                            VAX-11 Bliss-32 V4.0-742 
$255$DUA28:[EDT.SRC]EDT.REQ;1
                                                                                                              Page 24 (14)
```

```
0877
                 Input source definitions.
0878
0879
       000000
                 These constants define the source command line input.
0880
              INP_TERM = 0,
INP_MACRO = 1,
INP_COMMAND = 2,
INP_JOURNAL = 3;
0881
0882
0883
                                                         Terminal
                                                          A macro
                                                        ! The startup file ! The journal file (only during /RECOVER)
0884
       Ŏ
0885
       Ŏ
0886
       Ŏ
0887
       Ŏ
                 Terminal type definitions.
0889
       Ŏ
       Ŏ
0890
                 These literals define the type of terminal we are running on.
0891
0892
0893
       0
               LITERAL
                    TERM_UNKNOWN= 0,
TERM_VT52 = 1,
TERM_VT100 = 2,
TERM_HCPY = 3;
       Ò
0894
       0
0895
       Ŏ
       Ŏ
0896
0897
0898
       Ò
               ! Length of the type-ahead buffer
       Ŏ
0899
0900
       Ŏ
               LITERAL
0901
                         K_RDAHED_LEN = 32;
0902
       Ŏ
0903
       Ŏ
0904
       Ō
                 Editor mode definitions.
0905
       Ŏ
0906
               LITERAL
                    CHANGE_MODE
                                             = 0.
= 1;
0907
0908
0909
0910
0911
       Ō
                 definitions for types of words and paras
0912
       Ŏ
       Ò
               LITERAL
       Ŏ
                                             = 0,
= 1,
0914
                    DELIMITED
                    NOT DELIMITED WPSPARA
0915
       Ó
0916
       Ò
                                             = 0.
```

0

EDTPARA

6 4 15-Sep-1984 23:00:56 VAX-11 Bliss-15-Sep-1984 22:43:32 _\$255\$DUA28:[

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]EDT.REQ;1

Page 25 (15)

.

R0975 R0976 R0977 R0978

R0922

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This file, ERRMSG.REQ, contains definitions of EDT's messages.

```
Edit history:

1-001 - Original, from EDT.PEQ. JBS 20-Jul-1981
1-002 - Add a short global name for PDP-11 MA(RO modules. JBS 20-Jul-1981
1-003 - Add a message for "work file failed to open". Module RSTIOI was using code 0 for this condition: JBS 20-Jul-1981
1-004 - Change "." to "" in PDP-11 names. JBS 21-Jul-1981
1-005 - Don't define the short global names, let EDTSMESSAGE do it. JBS 21-Jul-1981
1-006 - Use an iterative macro. JBS 21-Jul-1981
1-007 - Use the specified increment rather than 1 between messages. JBS 27-Jul-1981
1-008 - Correct a couple of typos based on the MDL file. JBS 28-Jul-1981
1-009 - Update a message based on the PDP-11 messages. JBS 28-Jul-1981
1-009 - Update a message hased on the PDP-11 messages. JBS 28-Jul-1981
1-010 - Change the form of the memonics to EDTS.... Limit the names to nine characters, and let them be defined as globals on VAX-11. JBS 04-Aug-1981
1-011 - Add new error mag INVSTR for bad string passed to set command. STS 20-0ct-1981
1-012 - Make the INVSTR message more general so it can be used in more cases. JBS 22-Oct-1981
1-013 - Correct a typo in NOFILSPC. SMB 03-Nov-1981
1-014 - Revise messages for NOFILSPC. SMB 03-Nov-1981
1-015 - Add a new message for STS 11-Nov-1981
1-016 - Add new messages for Liten number & sequence numbers out of range. SMB 20-Nov-1982
1-017 - Revise existing error messages related to line numbers. SMB 05-reb-1982
1-018 - Add a new message for numeric value out of range. JBS 10-feb-1982
1-019 - Add a new message for internal EDI error. STS 19-Feb-1982
1-020 - Add a new message for internal EDI error. STS 19-Feb-1982
1-021 - Add message for passing back status. STS 09-Mar-1982
1-022 - Add message for re-entry of EDI. STS 11-Mar-1982
1-024 - Add message for anon-standard input file. JBS 26-Mar-1982
1-025 - Add message shout closing files. JBS 12-Apr-1982
```

•••••••

```
1-028 - Add second control C message. JBS 24-May-1982
1-029 - Add an error message for Help File initialization. SMB 28-May-1982
R0979
R0980
                                   1-030 - Put the messages in the same order as the manual, to simplify verifying one against the other. JBS 09-Jun-1982
1-031 - Add 'Press return to continue'. JBS 17-Jun-1982
1-032 - Add 'Working'. JBS 18-Jun-1982
1-033 - Add a new select range error message. SMB 01-Jul-1982
1-034 - Do some miscellaneous improvements based on today's review. JBS 12-Jul-1982
R0981
R0982
R0983
R0984
R0985
R0986
R0987
                                    1-035 - Fix duplicated mnemonic. JBS 13-Jul-1982
                                    1-036 - Move ER OUT and ER INP to reflect the real meaning of the messages. SMB 13-Jul-1982 1-037 - Add an error message for no output file written and invalid
R0988
R0989
R0990
                                                          input from terminal. STS 05-Aug-1982
                                   1-038 - Take spaces out of the working message. SMB 18-Aug-1982
1-039 - Remove unused messages and add one new one. SMB 13-Dec-1982
1-040 - Add two new error messages for terminal opening. STS 15-Dec-1982
1-041 - Change the severity of terminal open errors to fatal. STS 16-Dec-1982
1-042 - Remove references to ASCII, since EDT uses the DEC Multinational character set. JBS 20-Jan-1983
R0991
R0992
R0993
R0994
R0995
R0996
R0997
```

```
R0998
  R0999
                         Maintenance note: the messages should be kept in alphabetical order
  R1000
                       ! by text, so that they can be matched against the manual.
  R1001
  R1002
R1003
                       ! Error messages: name, severity and text.
  R1004
  R1005
 R1006
R1007
                       MACRO
MR1008
                             ERROR_MESSAGES =
MR1009
                                      ERR (COLONREQ, W, ''': ' required'
MR1010
                                                                      'Aborted by CTRL/C',,
MR1011
                                                ABOBYCC, W.
                                                BOTOFBUF, W. 'Advance past bottom of buffer',,
ASREQ, W. ''AS'' required',
ATTCUTAPP, W. 'Attempt to CUT or APPEND to current buffer',,
MR1012
MR1013
MR1014
                                                                      'Attempt to PASTE current buffer',,
MR1015
                                                ATTPASCUR, W,
                                                                      'Attempt to re-enter EDT', 'Backup past top of buffer'
                                                REENTRY, F, TOPOFBUF, W,
MR1016
MR1017
                                                                       'Cannot set terminal type from change mode',
                                                NOSETTRM, W.
MR1018
                                                                      'Change mode can be entered only from a terminal',,
MR1019
                                                CHGMODTER, W.
                                                COMBUFEXH, W,
                                                                      'Command buffer exhausted', 'Command buffer exhausted during XLATE command processing',
MR1020
MR1021
                                                COMEXHXLA, W,
                                                                      'Command file could not be closed'...
'Command file could not be opened'...
MR1022
                                                COMFILCLO, W.
MR1023
                                                COMFILNOP, W.
                                                                       'Command file does not exist',,
MR1024
                                                COMFILNEX, W,
                                                                      'Consistency check failed, please check your file',, 'Could not align tabs with cursor',, 'CTRL/C ignored',, 'Destination for MOVE or COPY not found',,
MR1025
                                                CONCHKFLD. W.
MR1026
                                                CLDNOTALN, W.
                                                CTRC IGN, W. DSTMOVCOP, W.
MR1027
MR1028
MR1029
                                                EDITORABO, F,
                                                                      'Editor aborted'
                                                                      'Entity must be WORD, SENTENCE, PARAGRAPH or PAGE',,
MR1030
                                                ENTMUSTBE, W,
                                                                      'Error in command option', 'Error in range specification',
MR1031
                                                ERRCOMOPT, W.
MR1032
                                                ERRRANSPC, W.
                                                                     'Error opening terminal for input',
'Error opening terminal for output',
'Error reading from input file', ER_INP,
'Error reading from terminal',
'Error writing to output file', ER_OUT,
'Sile attributes arror' FR TYP
MR1033
                                                OPNINTRM,
                                                OPNOUTTRM, F,
MR1034
MR1035
                                                ERRINPFIL, W.
MR1036
                                                ERRINPTRM, W.
                                                ERROUTFIL, W.
MR1037
                                                                      'file attributes error', ER_TYP,
MR1038
                                                BADFILATR, W.
                                                                     'file name:',
'file specification required',
'for help on any other keypad key, press the key',
'Help file could not be closed',
'Help file could not be opened',
'Include file Index could not be initialized',
'Include file could not be closed',
'Include file could not be opened',
'Include file does not exist',
'Input file could not be closed',
'Input file could not be opened',
'Input file does not exist',
'Input file does not have standard text file format', ER_NST,
'Insufficient memory',
                                                                      'file name:'
                                                FILNAM, W,
NOFILSPC, W,
MR1039
MR1040
MR1041
                                                FORHLPANO, W.
MR1042
MR1043
                                                HLPFILCLO, W.
                                                NOHLPAVL, W. NOHLPINI, W.
MR1044
MR1045
                                                INCFILCLO, W.
MR1046
                                                INCFILOPN, W.
MR1047
                                                INCFILMEX, W.
                                                INPFILCLO. W.
MR1048
MR1049
                                                INPFILOPN, W,
MR1050
                                                INPFILNEX, W.
                                                NONSTDFIL, I,
MR1051
                                                                      'Insufficient memory',,
'Internal software error - please submit an SPR',,
                                                INSMEM, W.
MR1052
                                                INTERERR, F,
             0
MR1053
MR1054
                                                INVBUFNAM, W. 'Invalid buffer name',,
```

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Page 29 (2)

```
INVASCCHR, W, 'Invalid character code',, INVENT, W, 'Invalid entity',
   MR1055
   MR1056
MR1057
                                                                          'Invalid option for that command'
                                                    INVOPTCOM, W
                                                                          'Invalid parameter for SET or SHOW',,
   MR1058
                                                    INVPARFOR, W.
                                                                          'Invalid string',
   MR1059
                                                    INVSTR, W,
                                                    INVSUBCOM, W
  MR1060
                                                                          'Invalid subcommand'
                                                                          'Invalid subcommand',
'Invalid value in SET command',
'I/O error on work file', ER WF,
'Journal file could not be closed',
'Journal file could not be opened',
  MR1061
                                                    INVVALSET, W.
   MR1062
MR1063
                                                    IOERRWRK, F,
                                                    JOUFILCLO, W.
   MR1064
                                                    NOJNLFIL, W.
                                                                          'Keys cannot be defined in Nokeypad mode',, 'Line exceeded 255 characters, truncated',
                                                   BADDEFK, W.
LINEXC255, W.
   MR1065
   MR1066
                                                                          'MACRO or KEY required'
   MR1067
                                                    MACKEYREQ, W
                                                                          Max input line of 2814749767 exceeded, file input terminated,,
   MR1068
                                                    MAXINPLIN, F.
                                                   MAXLINNUM, F
   MR1069
                                                                           'Max line number exceeded; lines no longer ascending; resequence recommended',,
                                                                           'Max number of lines for this buffer exceeded',,
   MR1070
                                                    MAXLINVAL, F,
                                                   NODEFN, W,
NOKEYHLP, W,
BADRANGE, F,
   MR1071
                                                                          'No definition'
                                                                          'No help available for that key',,
'No more than 65535 lines can be processed in a single command',,
  MR1072
MR1073
                                                   NOFILWRT, W.
   MR1074
                                                                           'No output file written',,
                                                                          'No select range active',,
   MR1075
                                                   NOSELRAN, W.
   MR1076
                                                   NOSUCHLIN, W
                                                                          'No such line',
  MR1077
                                                                          'Now enter the definition terminated by ENTER',,
                                                   NOWENTDEF, W
                                                                          'Numeric value illegal',
'Numeric value required',
'ORIGINAL line numbers no longer an EDT feature',
'Output file could not be closed',
'Output file could not be created',
                                                   NUMVALILL,
   MR1078
   MR1079
                                                   NUMVALREQ,
   MR1080
                                                   NOORIGNUM, F.
   MR1081
                                                   OUTFILCLO, W
  MR1082
MR1083
                                                   OUTFILCRE, W.
                                                                          'Parenthesis mismatch'
                                                   PARENMIS, W. PARSTKOVF, W
                                                                          'Parsing stack overflow'
   MR1084
                                                                          'Please answer Y(es), N(o), Q(uit), or A(ll)',, 'Pass bad status to caller',,
                                                   PLSANSYNQ,
   MR1085
   MR1086
                                                   PASSTATUS,
                                                                          'Press return to continue '..
   MR1087
                                                   PRERETCON, W.
                                                   PRSKEYDEF.
                                                                          'Press the key you wish to define',.
'Print file could not be closed',.
   MR1088
                                                                         'Print file could not be closed',
'Print file could not be created',
'Quoted string required',
'Range for RESEQUENCE must be contiguous',
'Range specified by /SEQUENCE would cause duplicate or non-sequential numbers',
'Record too big, truncated to 255 characters', ER_RIB,
'Search string cannot be null',,
'Select complete lines only',,
'Select range is already active'
   MR1089
                                                   PRIFILCLO,
                                                   PRIFILCRE.
   MR1090
   MR1091
                                                   QUOSTRREQ.
   MR1092
                                                   RANNONCON, W
  MR1093
                                                   RANSPCSEQ,
   MR1094
                                                    RECTOOBIG, W
   MR1095
                                                    SUBSTRNUL, W.
                                                   INVSRAN, W.
SELALRACT, W.
   MR1096
                                                                          'Select complete lines only',
'Select range is already active',
'Sequence increment must be less than 65536',,
'Sequence number must be less than 65536',
  MR1097
   MR1098
                                                    SEGINCROV, F,
                                                   SEQNUMOV, F, NONALPNUM, W,
   MR1099
                                                                         'String delimiter must be less than 05550;
'String was not found',
'That key is not definable',
'To exit from HELP, press the spacebar',
'To return to the keypad diagram, press the return key',
   MR1100
   MR1101
                                                    STRNOTFND, W.
                                                   KEYNOTDEF, W. TOEXITHLP, W. TORETKEY, W. UNXCHRAFT, W.
   MR1102
   MR1103
   MR1'04
                                                                          'Unexpected characters after end of command' , ,
   MR1.05
                                                                         'Unrecognized command',,
'Unrecognized command option',,
'Work file failed to close',,
'Work file failed to open', ER_WFO,
   MR1106
                                                   UNRCOMOPT, W.
   MR1107
   MR1108
                                                    WORFILCLO, W.
                                                   WORFILFAL, F.
   MR1109
                                                   WRKFILOVF, F, WORKING, F,
                                                                          'Work file overflow',,
   MR1110
; MR1110
; MR1111
                                                                          'Working',,
```

15-Sep-1984 23:00:56 15-Sep-1984 22:44:02

VAX-11 Bliss-32 V4.0-742

\$255\$DUA28:[EDT.SRC]ERRMSG.REQ;1

Page 30 (2)

15-Sep-1984 23:00:56 15-Sep-1984 22:44:02

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]ERRMSG.REQ;1

MR1112 0 MR1113 0 MR1114 0 R1115 0 WRIFILCLO, W, 'Write file could not be closed',, WRIFILCRE, W, 'Write file could not be created',,

X:

```
15-Sep-1984 23:00:56
15-Sep-1984 22:44:02
                                                                                                  VAX-11 Bliss-32 V4.0-742
                                                                                                  $255$DUA28:[EDT.SRC]ERRMSG.REQ;1
 R1116
 R1117
                  Define the base and offset for the message codes.
 R1118
                  The offset is used to distinguish EDT message codes from system-specific
 R1119
                  message codes. On VAX/VMS, the codes are defined by the MESSAGE compiler.
 R1120
 R1121
LR1122
UR1123
                XIF XBLISS (BLISS16)
                THEN
UR1124
U 1125
                LITERAL
                    W_BASE = 256,
F_BASE = 256,
I_BASE = 257,
UR1126
UR1127
UR1128
UR1129
                     E_{INC} = 2;
UR1130
UR1131
UR1132
UR1133
                  Define the error codes.
UR1134
UR1135
                MACRO
UR1136
                    ERR [NAME, SEVERITY, TEXT, ENAME] =
UR1137
                         UR1138
UR1139
UR1140
                     X:
UR1141
UR1142
UR1143
                COMPILETIME
                     ERROR_CODE = 1:
UR1144
UR1145
UR1146
                LITERAL
UR1147
                    ERROR_MESSAGES;
UR1148
UR1149
                UNDECLARE %QUOTE
UR1150
                    ERR;
UR1151
 R1152
R1153
                XF I
 R1154
 R1155
                ! The modules EDT$MESSAGE and EDT$MSGTXT use macro ERROR_MESSAGES to
 R1156
                  generate the text of each message.
 R1157
 R1158
 R1159
                  Define the MESSAGES macro, which defines EDTS mnemonic properly for either BLISS16 or BLISS32. On BLISS16 it is defined as a literal,
 R1160
 R1161
                  equal to the ERR_mnemonic name. On BLISS32 it is defined as external.
 R1162
 R1163
 R1164
                MACRO
MR1165
                     MESSAGES (MNEMONIC_LIST) =
MR1166
MR1167
                     XIF XBLISS(BLISS16) XTHEN MACRO MSG [MNEMONIC] =
MR1168
                         **XNAME ('EDTS', MNEMONIC) = **NAME ('ERR_', MNEMONIC) ***QUOTE *;
LITERAL MSG (**REMOVE(MNEMONIC_LIST));
MR1169
MR1170
MR1171
                         UNDECLARE TOUOTE TOUOTE MSG:
MR1172
                     XEL SE
```

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Page 31 (3)

MR1173 0
MR1174 0
MR1175 0
MR1176 0
MR1177 0
MR1177 0
R1178 0
R1179 0
R1180 0 !
End of file ERRMSG.REQ

! This line has been deleted

VAX-11 Bliss-32 V4.0-742

\$255\$DUA28:[EDT.SRCJEDT.REQ:1

```
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1196
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1197
1198
1199
         0000
1200
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         0000
1205
1206
1207
1208
         0
         0
1209
1210
```

```
Definition of the screen update data structure.
   This structure has an entry for each line which is represented on the screen. In NOTRUNCATE mode, each record may occupy one or more screen lines.
START_FIELDS(SCR_FIELDS)

A_FIELD(SCR_PRV_LINE, XBPADDR),
A_FIELD(SCR_NXT_LINE, XBPADDR),
A_FIELD(SCR_LINE_IDX,8),
A_FIELD(SCR_CHR_FROM,8),
A_FIELD(SCR_CHR_TO,8),
A_FIELD(SCR_EDIT_MINPOS,8),
A_FIELD(SCR_EDIT_MAXPOS,8),
A_FIELD(SCR_EDIT_FLAGS,8)

FND_FTFIDS
                                                                            Pointer to the previous line
Pointer to the next line
                                                                           The i'th screen line of this record Workfile char position from Workfile char position to
                                                                            Minimum position that has had an edit
                                                                            Maximum position that has had an edit
                                                                           Modify, delete and insert flags
END_FTELDS
STRUC_SIZE(SCR_SIZE);
MACRO
       SCREEN_LINE = BLOCK[SCR_SIZE, BYTE] FIELD(SCR_FIELDS) %;
 ! These flags go in SCR_EDIT_FLAGS and are also used when calling EDT$$MRK_LNCHG.
 LITERAL
       SCR_EDIT_MODIFY = 1,
SCR_EDIT_INSLN = 2,
SCR_EDIT_DELLN = 4;
                                                                         ! This line has been modified ! This line has been inserted
```

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]EDT.REQ;1

```
000000000000000000
              Ŏ
              Ŏ
     1231
```

XFI

```
This hack added to get around problem in CH$DIFF in BLISS16.
XIF XBLISS(BLISS16) OR XBLISS(BLISS32) XTHEN
            MACRO
                       CHSPTR_GTR(P1,P2) = (P1) GTRA (P2) %,

CHSPTR_GEQ(P1,P2) = (P1) GEQA (P2) %,

CHSPTR_EQL(P1,P2) = (P1) EQLA (P2) %,

CHSPTR_LEQ(P1,P2) = (P1) LEQA (P2) %,

CHSPTR_LSS(P1,P2) = (P1) LSSA (P2) %,

CHSPTR_NEQ(P1,P2) = (P1) NEQA (P2) %;
XEL SE
            MACRO
                       CHSPTR_GTR(P1,P2) = CHSDIFF(P1,P2) GTR 0 %,

CHSPTR_GEQ(P1,P2) = CHSDIFF(P1,P2) GEQ 0 %,

CHSPTR_EQL(P1,P2) = CHSDIFF(P1,P2) EQL 0 %,

CHSPTR_LEQ(P1,P2) = CHSDIFF(P1,P2) LEQ 0 %,

CHSPTR_LSS(P1,P2) = CHSDIFF(P1,P2) LSS 0 %,

CHSPTR_NEQ(P1,P2) = CHSDIFF(P1,P2) NEQ C %;
```

D 5 15-Sep-1984 23:00:56 15-Sep-1984 22:43:32

VAX-11 Bliss-32 V4.0-742 _\$255\$DUA28:[EDT.SRC]EDT.REQ;1

Page 35 (18)

```
126545678911277777812283451285
                                        00000000000
                                                                                           Define the verb numbers.
                                                                                             These are the codes used to represent the change mode subcommands.
                                                                                             The verbs from VERB_MOVE through VERB_APPEND require entities and
                                                                                           their verb numbers must remain contiguous.
                                                                               LITERAL
                                                                                                       VERB_K_MOVE =
VERB_K_DELETE=
VERB_K_REPLACE=
VERB_K_CHGC =
VERB_K_CHGL =
VERB_K_SSEL =
VERB_K_FILL =
VERB_K_TADJ =
VERB_K_TADJ =
VERB_K_APPEND=
                                        Ŏ
                                        Ŏ
                                        Ŏ
                                        Ŏ
                                        Ŏ
                                                                                                                                                                                                                                                6.
7.
                                        Ŏ
                                                                                                                                                                                                                                             8.
10.
                                        Ŏ
                                        Ŏ
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                                        Ğ
                                        Ŏ
                                                                                                          VERB_K_SEL =
                                                                                                                                                                                                                                              11,
                                        Ŏ
                                                                                           verbs verb_k_subs through verb_k_cc are special since they require variable length strings - keep them together with subs always first and cc last.
1286
1287
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1299
                                        Ŏ
                                        Ŏ
                                        Õ
                                                                                                       VERB_K_SUBSTET = VERB_K_INSERT = VERB_K_INSERT = VERB_K_INDU = VERB_K_IN
                                        Ŏ
                                        Ò
                                                                                                                                                                                                                                             Ŏ
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 1308
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                                        0
```

```
F 5
15-Sep-1984 23:00:56
15-Sep-1984 22:43:32
```

VERB_K_DUPC =
VERB_K_DLWC =
VERB_K_DMOV =
VERB_K_DESEL =
VERB_K_TGSEL =
VERB_K_CLSS =
LAST_K_VERB = 1318 1319 1321 1322 1322 1322 1326 1326 1331 1333 00000000000000 : Changecase types. LITERAL CASE_K_CHGC = CASE_K_CHGL =

Ŏ Ŏ ! Invert case, corresponds to VERB_K_CHGC ! Upper case, corresponds to VERB_K_CHGU ! Lower case, corresponds to VERB_K_CHGL

```
1352
1354
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1356
1357
1358
        00000000000000000
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
1371
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1373
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1376
1377
        Ŏ
1378
```

```
VAX-11 Bliss-32 V4.0-742
_$255$DUA28:[EDT.SRC]EDT.kEQ;1
 ! PARSER OP-CODE DEFINITIONS
   The following are the op-codes accepted by the parser driver.
LITERAL
             OPC_ABORT
OPC_ACTION
OPC_CALL
OPC_RETURN
OPC_GOTO
OPC_OPTION
OPC_REQUIRE
OPC_SELECT
                                                                       Abort the parse
Perform action routine
                                        =
                                                                       Call sub-table
                                                                       End of table or sub-table (return)
                                                                       Unconditional goto
                                                                   ! Optional phrase check
! Require a specific token
! select one of several options
                                        =
                                        =
             OP_ABORT
OP_ACTION
OP_CALL
OP_RETURN
OP_GOTO
OP_OPTION
OP_REQUIRE
                                                      034.
968.
1692.
                                                                    ! now the bit values
                                        =
                                        =
                                        =
                                        =
             OP_SELECT
! Token class definitions
LITERAL
             CL_NAME
                                                                       name class
             CL_NUMBER
                                                                       the number class
             CL_SPECIAL CL_STRING
                                                                    ! the special character class! The gouted string class
! Parser token handling and matching macros
MACRO
             PAR_MIN_LENGTH = 0.0,3.0 %.
PAR_MAX_LENGTH = 0.4.4.0 %.
PAR_OPT_PERCENT = 0.3.1.0 %.
PAR_SYMBOL = 1.0.0.0 %;
```

•••••••

```
1380
1381
1382
1383
1384
   1385
  1386
1387
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1390
U 1391
U 1392
U 1393
U 1394
U 1395
U 1396
U 1397
U 1398
Ŭ 1399
U 1400
U 1401
            0
U 1402
            0
U 1403
            0
U 1404
            Ò
U 1405
            0
U 1406
            0
U 1407
U 1408
U 1409
U 1410
   1411
            0
   1412
            0
   1413
            0
   1414
            0
   1415
            0
   1416
            0
   1417
            0
   1418
   1419
            0
   1420
            0
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M 1427
M 1428
M 1430
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            Ò
            0
            0
            Ó
            Ó
M 1431
M 1432
M 1433
M 1434
            0
```

0

1:

```
! Miscellaneous definitions
                XIF XBLISS(BLISS32) XTHEN
                MACRO STRING_DESC(DESC, LEN, ADDR) =
                BEGIN EXTERNAL ROUTINE STR$COPY_R; STR$COPY_R(DESC, LEN, ADDR) END %;
                XELSE
                  These DSC$ macros are defined as system symbols on VAX/VMS. They are
                  fields in a string descriptor. To get the effect of a string descriptor on the 11's, we will pass a 4 word field with the following macros defining
                  the pointer to the string address and the field of the string langth.
                MACRO
                     DSCSA_POINTER = 4,0,16,0%
                     DSC$w[LENGTH = 0.0,16.0%]
                MACRO STRING_DESC ( DESC, LEN, ADDR) =
                    BEGIN
                    MAP
                    DESC: BLOCK[8,BYTE];
DESC[DSC$A_POINTER] = ADDR;
DESC[DSC$W_LENGTH] = .LEN;
                    END %:
               XF 1
                LITERAL
                    NO_UPDATE
                                            256,
                                                       Indicating no update of current line needed
                                            100.
                    NO REFRESH =
                                                       Indicating no refresh of screen needed
                                            22.
23.
                    MESSAGE_LINE = COMMAND_LINE =
                                                       Line on which messages are displayed
                                                       Line on which command prompts are displayed
                    DIR FORWARD =
                                                       forward direction.
                    DIR_BACKWARD=
                                                       Backward direction.
                  Definition of the ASSERT macro. This macro calls EDT$$INTER_ERR if the
                ! condition is not true.
                MACRO ASSERT (CONDITION) =
                    BEGIN
                     IF (NOT (CONDITION))
                     THEN
                         BEGIN
                         EXTERNAL ROUTINE EDTSSINTER_ERR : NOVALUE;
                         EDT$$!NTER_ERR ();
                         END;
M 1435
         Ò
                    END
```

```
1437
1438
1439
1440
         00000000000
                   Symbols used in control C journaling.
                  LITERAL
                            CC_REC_SIZE = 6,

JOD_REC_ESC = %x'FF',

CC_REC_FLAG = 1,

CC_CTR_MAX = 30000;
   1441
                                                                      Size of a control C record first (escape) byte of a non-text record in the journal file
  1442
                                                                       Second byte: control C record
  1444
                                                                      Maximum counter value in control C nandling
  1446
                  ! Symbol used in the formatter
  1448
  1449
          Ŏ
                  XIF XBLISS(BLISS32) XTHEN
                 LITERAL
  1450
                            EDT$$K_FMT_BUFLEN = 512;
  1451
                                                                    ! Length of the format buffer
1452
U 1453
          000
                 XELSE
LITERAL
U 1454
                            EDT$$K_FMT_BUFLEN = 136;
U 1455
          Ŏ
                                                                    ! Length of the format buffer
          Ŏ
U 1456
  1457
          Ŏ
                  XF I
          Ŏ
  1458
  1459
          Ŏ
                  !
                            End of file EDT.REQ
```

COMMAND QUALIFIERS

BLISS/LIBRARY=EDTSRC:EDT/LIST=LIS\$:/SOURCE=REQUIRE SRC\$:EDT.REQ

Run Time: 00:12.2 Elapsed Time: 00:23.8 Lines/CPU Min: 7193 Lexemes/CPU-Min: 36428 Memory Used: 104 pages

; Library Precompilation Complete

0133 AH-BT13A-SE

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